



EPA 2003 Science Forum: Partnering to Protect Human Health and the Environment
May 5-7, 2003
Washington, DC
AGENDA

Day 1 - Monday, May 5, 2003

*Note: The poster and exhibit rooms will be open from 8:00 AM to 7:00 PM.

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| 7:00 AM - 8:45 AM | Registration (Atrium Hall Lobby) |
| | Plenary Session (Amphitheatre) |
| 9:00 AM - 9:20 AM | Plenary (Christine Todd Whitman, EPA Administrator) |
| 9:20 AM - 9:40 AM | Plenary (Paul Gilman, Science Advisor, EPA) |
| 9:40 AM – 10:00 AM | Plenary (Jimmy Palmer, Regional Administrator, EPA Region 4) |
| 10:00 AM - 10:30 AM | Plenary (James Connaughton, Chairman, White House Council on Environmental Quality) |
| 10:30 AM - 11:00 AM | Overview (Kevin Teichman, Director, Office of Science Policy, ORD, EPA) |
| 11:00 AM - 1:00 PM | Lunch |
| 1:00 PM - 1:30 PM | Plenary (Homeland Security – Maureen McCarthy, Acting Director, Research & Development, Science & Technology Directorate, Department of Homeland Security) |
| 1:30 PM - 2:15 PM | Plenary (Moving Science Into Action - William G. Ross, Jr., Secretary, North Carolina Department of Environment and Natural Resources; James Ransom, Director, Haudenosaunee Environmental Task Force, Mohawk Nation of Akwesasne) |
| 2:15 PM - 2:45 PM | Plenary (Year of Water - Sylvia Earle, Marine Biologist and Explorer-in-Residence, National Geographic Society) |
| 2:45 PM - 3:15 PM | Plenary (Emerging Technologies - David Rejeski, Director, Foresight and Governance Project, Woodrow Wilson International Center for Scholars) |
| 3:15 PM - 3:45 PM | Break |
| 3:45 PM - 7:00 PM | Poster Presentations/Reception/Awards Ceremony (Atrium Hall) |

List of Acronyms

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| CDC | Centers for Disease Control |
| CEPPO | Chemical Emergency Preparedness and Prevention Office |
| DEP | Department of Environmental Protection |
| DNR | Department of Natural Resources |
| EMAP | Environmental Monitoring and Assessment Program |
| EPA | Environmental Protection Agency |
| GED | Gulf Ecology Division |
| NCEA | National Center for Environmental Assessment |
| NEIC | National Enforcement Investigation Center |
| NERL | National Exposure Research Laboratory |
| NHEERL | National Health and Environmental Effects Research Laboratory |
| NHSRC | National Homeland Security Research Center |
| NIEHS | National Institute of Environmental Health Sciences |
| NIOSH | National Institute for Occupational Safety and Health |
| NOAA | National Oceanic and Atmospheric Administration |
| NRMRL | National Risk Management Research Laboratory |
| NSF | National Science Foundation |
| OAQPS | Office of Air Quality Planning and Standards |
| OAR | Office of Air and Radiation |
| OEI | Office of Environmental Information |
| OPEI | Office of Policy, Economics, and Innovation |
| OPP | Office of Pesticide Programs |
| OPPTS | Office of Prevention, Pesticides, and Toxic Substances |
| ORD | Office of Research and Development |
| OSCP | Office of Science, Coordination and Policy |
| OST | Office of Science and Technology |
| OSWER | Office of Solid Waste and Emergency Response |
| OW | Office of Water |
| PIPs | Plant Incorporated Protectants |
| R&D | Research & Development |
| REMAP | Regional Environmental Monitoring and Assessment Program |
| ReVA | Regional Vulnerability Assessment |
| SCCWRP | Southern California Coastal Water Research Project |
| SEQL | Sustainable Environment for Quality of Life |
| UC | University of California |
| UMDNJ | University of Medicine & Dentistry of New Jersey |
| USDA | United States Department of Agriculture |
| USGS | United States Geological Survey |

Day 2 - Tuesday, May 6, 2003

*Note: The poster and exhibit rooms will be open from 8:00 AM to 5:00 PM.

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| 7:00 AM - 8:30 AMRegistration (Atrium Hall Lobby) | | | | | 8:30 AM - 9:00 AMPlenary (Recap of Day 1 and Open of Day 2) (Amphitheatre) | | | | | 9:00 AM - 9:30 AMPlenary (Ms. Linda Fisher, EPA Deputy Administrator) (Amphitheatre) | | | | |
| | Moving Science Into Action (Hemisphere A) | | | | Emerging Technologies (Amphitheatre) | | | | Year of Water: 30 Years of Progress Through Partnerships (Hemisphere B) | | | | Homeland Security (Oceanic AB) | |
| 9:30 AM – 11:00 AM | Regional Vulnerability Assessment (ReVA): Improving Environmental Decision-Making Through Client Partnerships | | | | Applying Computational Toxicology to Solving Environmental Problems | | | | Waterborne Disease in the U.S. | | | | Anthrax: Response and Research | |
| | Moderator: Dr. Betsy Smith, NERL, ORD, EPA ReVA’s Client Partnerships: Improving Environmental Decision-Making Through Applied Research - Dr. Betsy Smith, NERL, ORD, EPA ReVA’s Web-Based Application: A Tool for Regional, State, and Local Decision-Makers - Dr. Michael O’Connell, Waratah Corporation The Sustainable Environment for Quality of Life (SEQL) Program: A Partnership between EPA ORD and OAQPS, and State and Local Governments - Ms. Rebecca Yarbrough, Centralina Council of Governments ReVA’s Partnership with the Maryland DNR: Opportunities to Optimize the Future - Mr. William Jenkins, Maryland DNR | | | | Computational Toxicology: Bolstering the Environmental Protection Agency’s Mission - Dr. William Farland, ORD, EPA Toxicogenomic Predictive Modeling - Dr. Donna Mendrick, Gene Logic, Inc. EPA’s Research Program on Computational Toxicology - Dr. Lawrence Reiter, NHEERL, ORD, EPA Novel Informatics and Pattern Recognition Tools for Computational Toxicology - Dr. William Welsh, Robert Wood Johnson Medical School and The UMDNJ Informatics Institute Computational Toxicology and Genomics: The Next Wave of Drinking Water Research - Dr. Douglas Wolf, NHEERL, ORD, EPA | | | | Introduction - Dr. Fred Hauchman, NHEERL, ORD, EPA EPA Studies of Endemic and Epidemic Waterborne Diseases – Dr. Rebecca Calderon, NHEERL, ORD, EPA Using Randomized Trials to Study Waterborne Pathogens Among Susceptible Populations - Mr. Jack Colford, University of California-Berkeley Maintaining Microbiological Quality of Drinking Water in the Distribution System - Dr. Mark LeChevallier, American Water | | | | Anthrax Response and Recovery: Applied Science & Technology, and Future Needs - Keynote: Mr. Thomas Voltaggio, EPA Region 3 EPA’s Homeland Security Research Program – Mr. Timothy Oppelt, ORD, EPA Secondary Aerosolization of Viable Bacillus anthracis Spores in an Office Environment - Dr. Chris Weis, NEIC, EPA | |
| | Break | | | | | | | | | | | | | |
| 11:30 AM - 1:00 PM | Partnership with State and Local Government | | | | Applying Computational Toxicology to Solving Environmental Problems | | | | Mississippi River Basin Hypoxia | | | | Anthrax: Detection, Sampling and Analysis | |
| | Moderator: Mr. Gilberto Alvarez, EPA Region 5 Michigan Environmental Science Board and Protecting Children’s Health - Mr. Keith Harrison, Michigan Environmental Science Board Integrated Environmental Planning Across Two States, 15 Counties, and 36 Municipalities: Do You Believe in Miracles? - Dr. Linda Rimer, EPA Region 4 Delta Cross Channel Gate Operation on Water Quality and Migration of Juvenile and Adult Salmon in Northern California - Dr. Bruce Herbold, EPA Region 9 | | | | The Genomic Path From Exposure to Effects in Aquatic Ecosystems - Dr. David Lattier, NERL, ORD, EPA Structure Activity Tools for Assessing Pesticides and Toxic Substances - Past, Present, and Future - Mr. Joseph Merenda, Jr., OSCP, OPPTS, EPA NIEHS Toxicogenomics Centers: Model for Partnerships - Dr. Bennett Van Houten, NIEHS Panel Discussion / Questions and Answers | | | | Moderator: Ms. Katie Flahive, OW, EPA The Science of Hypoxia – Mr. David Flemer, OST, OW, EPA Mississippi Basin Implementation – Ms. Katie Flahive, OWOW, OW, EPA | | | | Environmental Sampling of Bio-Aerosols - Mr. Mark Durno, EPA Region 5 and Ken Martinez, NIOSH | |
| | Lunch | | | | | | | | | | | | | |
| 2:00 PM - 3:30 PM | Advancing Science Through Environmental Monitoring and Assessment Program (EMAP) Partnerships | | | | Innovation to Advance the Detection of Threats and Optimize Environmental Decision Making | | | | The Millennium Challenge: EPA’s Response to Invasive Species | | | | Anthrax: Fumigation and Re-occupancy | |
| | Moderator: Dr. Michael McDonald, EPA Region 5 EMAP-West: Introduction - Dr. Roger Blair, ORD, EPA The EMAP Western Pilot in Region 8 – Mr. Karl Hermann, EPA Region 8 Perspective from the State of California - Mr. James Harrington, California Department of Fish and Game EMAP Tribal Perspectives - Mr. Jefferson Davis, Nez Perce Tribe | | | | Information Technology Science: Bolstering the Environmental Protection Agency’s Mission - Dr. Gary Foley, NERL, ORD, EPA Meeting National Environmental Goals: Coordinated Federal IT Solutions - Dr. David Nelson, White House National Coordination Office for Information Technology Research and Development Application of Advanced Information Technology to Promote, Educate, and Address Environmental Concerns - Ms. Ramona Trovato, OEI, EPA Monitoring Stressors to Human and Ecosystem Health from Space - Mr. David Williams, ORD, EPA and Mr. Jim Szykman, OAR, EPA ASPECT: Protecting Americans Through Rapid Detection of Atmospheric Contaminants - Mr. Mark Thomas, EPA Region 7 | | | | Moderators: Mr. Michael Slimak, NCEA, ORD, EPA and Ms. Marilyn Katz, OWOW, OW, EPA The Office of Water Perspective - Mr. G. Tracy Mehan III, EPA Research in Support of the Coast Guard’s Program to Prevent the Introduction of Nonindigenous Species by Ships - Dr. Richard Everett, U.S. Coast Guard International Efforts to Address the Transfer of Invasive Species Via Ballast Water - Ms. Kathy Hurd, OWOW, OW, EPA A “Shocking” Solution for Controlling the Spread of Asian Carp into the Great Lakes - Dr. Marc Tuchman, GLNPO, EPA Environmental Perspectives on Invasive Species Control – Ms. Jacqueline Savitz, Pollution Program, Oceana Pesticides and Invasive Species - Mr. Daniel Rosenblatt, OPPTS, EPA | | | | Fumigating Anthrax-Contaminated Sites: Building on Experience - Dr. Dorothy Canter, OSWER, EPA Clearance Determinations: Judging Remediation Success and Readiness for Re-Occupancy - Mr. Jack Kelly, EPA Region 3 and Mr. Mat Gillen, NIOSH | |
| | Break | | | | | | | | | | | | | |
| 4:00 PM - 5:30 PM | Advancing Science Through Environmental Monitoring and Assessment Program (EMAP) Partnerships cont. | | | | Innovation to Advance the Detection of Threats and Optimize Environmental Decision Making | | | | Social Science and Resistance to Water Flouridation | | | | Anthrax: Decontamination Technologies | |
| | National Coastal Assessment: Past, Present and Future - Dr. Kevin Summers, NHEERL, ORD, EPA The Interactions of EMAP and SCCWRP: Help in the Past, Necessity for the Future - Dr. Stephen Weisberg, Southern California Water Research Program The Role of the National Coastal Assessment in Developing a Continuing South Carolina Estuarine Monitoring Program - Dr. Robert Van Dolah, South Carolina DNR The Application of EMAP and REMAP in the EPA Regions - Ms. Darvene Adams, EPA Region 2 Questions and Answers | | | | Simulation and Visualization of the Smoke/Dust Plume from the World Trade Center - Dr. Steven Perry, NERL, ORD, EPA Real-Time Monitoring and Communication of Air Quality - Mr. Timothy Hanley, OAR, EPA Panel Discussion / Questions and Answers | | | | Moderator: Ms. Roberta Baskin, Channel 7 News Panelists: Mr. Paul Connett, St. Lawrence University TBA | | | | The Hunt for Anthrax Decontamination Chemicals - Mr. Jeff Kempter, OPP, OPPTS, EPA and Jeff Heimerman, OSWER, EPA Laboratory Support for Evaluating Decontamination Technologies – Ms. Rebecca Schultheiss, OPP, OPPTS, EPA Efficacy Testing Science Issues and Followup Research - Dr. Steve Tomasino, OPP, OPPTS, EPA | |

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| | Moving Science Into Action (Hemisphere B) | Emerging Technologies (Hemisphere A) | Year of Water: 30 Years of Progress Through Partnerships (Oceanic AB) | Homeland Security (Pavilion Foyer) |
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| 8:30 AM - 10:00 AM | Working with Tribes: Cultural Values and Tribal Lifeways Inform Health Assessments | Applying Biotechnology to Achieve Sustainable Environmental Systems | Development of Biological Indices for Coral Ecosystem Assessments | Building Partnerships Towards Homeland Security |
| | Moderators: Mr. James Ransom, Haudenosaunee Environmental Task Force, Mohawk Nation of Akwesasne and Mr. Thomas Baugh, EPA Region 4 Tribal Partnerships in Pesticide Management to Protect Human Health - Ms. Sarah Ryan, Big Valley Rancheria Establishing Self-Sufficiency in Alaska Native Communities to Minimize Exposure to Environmental Contaminants - Ms. June Gologergen-Martin, Alaska Community Action on Toxics Bioaccumulative Toxics in Native American Shellfish - Ms Jamie Donatuto, Swinomish Indian Tribal Community Bioaccumulative Toxics in Native American Shellfish - Mr. Larry Campbell, Swinomish Indian Tribal Community | Introductions and Welcome - Dr. Hugh McKinnon, NRMRL, ORD, EPA Molecular Farming for Sustainable Chemistry - Dr. Barry Marrs, Fraunhofer Center for Molecular Biotechnology EPA Biotechnology Program Overview - Dr. Lawrence Reiter, NHEERL, ORD, EPA Regulatory Perspective on Bioengineered Crops - Dr. Janet Andersen, OPP, OPPTS, EPA Linking Strategic Environmental Monitoring to Risk Assessment of Biotechnology Products with Plant Incorporated Protectants (PIPs) - Dr. Robert Frederick, NCEA, ORD, EPA | Moderator: Mr. Kennard Potts, OW, EPA Assessing the Consequences of Global Change for Coral Reef Ecosystems - Dr. Jordan West, NCEA, ORD, EPA Biological Indices for Assessing Coral Reefs: UV Impacts - Dr. Richard Zepp, NERL, ORD, EPA Mr. William Swietlik, OST, OW, EPA Dr. Stephen Jameson, Coral Seas Inc. | Moderator: Ms. Kathy Jones, CEPPO, EPA Panelists: Mr. Marty Durbin, American Chemistry Council Mr. Paul Bennett, New York City DEP Mr. Mike Marcotte, DC Water and Sewer Authority Mr. Gordon Smith, Sandia National Laboratories Ms. Janet Pawlukiewicz, Water Protection Task Force, EPA Dr. Nancy Adams, NHSRC, EPA |
| | Break | | | |
| 10:30 AM - 12:00 PM | Moving Science Into Action - Step One: Get the Data! | Applying Biotechnology to Achieve Sustainable Environmental Systems cont. | The Impacts of Urban Drainage Design on Aquatic Ecosystems in the United States | Building Partnerships Towards Homeland Security cont. / BioWatch |
| | Moderator: Ms. Pamela Russell, OEI, EPA Introductory Remarks - TBD Uses of Toxics Release Inventory Data - Ms. Gail Froiman, OEI, EPA Integration of State and County Stream Monitoring Programs: A Maryland Case Study - Mr. Wayne Davis and Mr. Ron Klauda, Maryland DNR and Mr. Keith VanNess, Montgomery County Department of the Environment Effects of Urban Growth on Fish Assemblages in a North Carolina Metropolitan Area, 1970-2000 - Dr. Jonathan Kennen, USGS and Ms. Ming Chang Dynamic Choropleth (DC) Maps - Mr. William Smith | Remote Sensing for Bio-Engineered Crops - Dr. John Glaser, NRMRL, ORD, EPA Environmentally Benign Polymeric Packaging from Renewable Resources - Dr. John Dorgan, Colorado School of Mines Science-Based Opportunities for Inter-Agency Interactions through the USDA Biotechnology Risk Assessment Research Grants Program - Dr. Deborah Hamernik, US Department of Agriculture Panel Discussion / Questions and Answers | Moderator: Mr. Jamal Kadri, OW, EPA Ms. Diane Regas, OWOW, OW, EPA Hei Yeong Kwan, Center for Watershed Protection | Building Partnerships Towards Homeland Security (cont.) BIOWATCH - Nationwide Early Detection of Airborne Biological Agents - Mr. Tom Coda, OAQPS, EPA |
| | Lunch | | | |
| 1:30 PM - 3:00 PM | Emerging Innovations in Regional Ecosystem Protection | Applying Nanotechnology to Solve Environmental Problems | Innovative Monitoring Techniques | World Trade Center: Lessons Learned, and Personnel Protection and Training |
| | Regional Ecosystem Protection: What Does It Offer Our Future? - Mr. John Perrecone, EPA Region 5 and Mr. Doug Norton, OW, EPA Use of Geospatial Tools to Identify High Quality Midwest Ecosystems - Dr. Mary White, EPA Region 5 and Mr. John Perrecone, EPA Region 5 Synoptic Model to Rank Wetland Ecosystems for 404 Permitting: An Application of Regional Critical Ecosystems Protection - Ms. Brenda Groskinsky, EPA Region 7 Southeastern Ecological Framework’s Geobook - Software for Mapping Partnerships and Ecosystem Protection - Dr. John Richardson, EPA Region 4 The Mid-Atlantic Highlands Action Program: Transforming the Legacy - Mr. Tom DeMoss, Mr. Randy Pomponio and Ms. Jennifer Newland, Canaan Valley Institute | Introductions and Welcome - Dr. Jack Puzak, NCEA, ORD, EPA Nanotechnology and the Environment: Keeping an Emerging Technology Green - Dr. Vicki Colvin, Center for Biological and Environmental Nanotechnology, Rice University The Future of the National Nanotechnology Initiative - Dr. Mike Roco, National Science Foundation Nanostructured Porous Silicon and Luminescent Polysiloles as Chemical Sensors for Carcinogenic Chromium (VI) and Arsenic (V) - Dr. William Trogler, University of California, San Diego | Indicators - Ms. Susan Jackson, OST, OW, EPA Probabilitiy-Based Monitoring Design - Mr. Tony Olsen, ORD, EPA Integration of Water Quality Data and Landscape Information - Mr. Jim Harrison, EPA Region 4 | World Trade Center Lessons Learned and Interagency Collaboration – Moderator: Mr. Larry Reed, NIEHS 9/11 Lessons Learned for Worker Protection - Mr. Joseph Hughes, Jr., NIEHS WTC Partnership Activities for Worker Protection - Mr. Bruce Lippy, National Clearinghouse for Worker Safety and Health Training Immediate Response and Collaboration: EPA Region Perspective - Dr. Mark Maddaloni, EPA Region 2 Immediate Response and Collaboration: ATSDR Perspective - Mr. Sven Rodenbeck, ATSDR Longer Term Response and Collaboration: NIEHS Perspective - Dr. Claudia Thompson, NIEHS Longer Term Response and Collaboration: NIEHS Grantee’s Perspective - Dr. Alison Geyh, Johns Hopkins University |
| | Break | | | |
| 3:30 PM - 5:00 PM | Site Characterization and Decision Analysis of Contaminated Sediments | Applying Nanotechnology to Solve Environmental Problems | Volunteer Monitoring - Ten Years of Progress | Preparing for Bioterrorism Threats in Water |
| | Introduction - Dr. John Bing-Canar, EPA Region 5 Introduction of Concepts and Tools - Mr. Brian Cooper, EPA Region 5 Initial Sample Design - Mr. John Kern, Kern Consulting Spatial Estimation - Dr. John Bing-Canar, EPA Region 5 Decision Analysis - Mr. Charles Roth, EPA Region 5 | Nanoscale Biopolymers for Decontamination and Recycling of Heavy Metals - Dr. Wilfred Chen, University of California, Riverside Green Engineering of Dispersed Nanoparticles: Measuring and Modeling Nanoparticle Forces - Dr. Kristen Fichthorn, Pennsylvania State University Development of Nanocrystalline Zeolite Materials as Environmental Catalysis: From Environmentally Benign Synthesis to Emission Abatement - Dr. Vicki Grassian, University of Iowa Panel Discussion / Questions and Answers | Moderator: Mr. Joe Hall, OWOW, OW, EPA Volunteer Monitoring: The Big Picture - Ms. Alice Mayo, OWOW, OW, EPA Building Capacity: A Coastal Waters Perspective - Mr. Joe Hall, OWOW, OW, EPA Volunteer Monitoring: A Wetlands Perspective - Ms. Kathleen Kutschenreuter, OWOW, OW, EPA | Moderator: Dr. Jafrul Hasan, OW, EPA Mr. Chris Zarba, OST, OW, EPA NHSRC’s Water Security Research and Technical Support Program - Mr. Jonathan Herrmann, NHSRC, EPA Ms. Grace Robiou, WPTF, EPA Dr. John Ezzell, US Army Medical Research Institute of Infectious Diseases Ms. Janet Jensen, US Army Soldier and Biological Command Dr. Alan Lindquist, NHSRC, EPA |